MDST WARFIGHTER SUPPORT ISSUE

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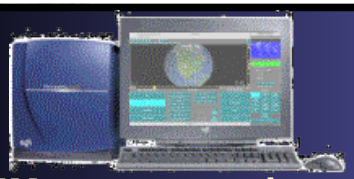
PURPOSE

- **Identify potential MDST support shortfall for warfighter exercise/training events**
- **Generate discussion of warfighter requirements**
- **Generate discussion of alternatives**

Missile Defense Space Warning Tool (MDST) Overview

MDST



- BMDS SIM representation of SBIRS and STSS elements
- Funded by MDA/SS, MDA/DES
- Sponsored by SBIRS and STSS SPOs
  - Close coordination on model development and data input
  - Model benchmarking w/ higher fidelity element simulations, operational systems
- Accredited by the SBIRS SPO by intended use (AP 06, VS 07, TF 07)
- Certified by USSTRATCOM J65 & IBSSO to provide ballistic missile early warning messages to the warfighter over operational broadcasts
- Supports ~110 events per year
  - Joint warfighter training exercises
  - TES architecture Health Checks
  - BMDS test preparation
  - BMDS wargames

Threat

Theater

Strategic

- Direct read of TMSS threat data
- Surrogate internal threat flyout model based on intel data
- External threats via model federation over DIS, HLA

Sensors

DSP

SBIRS High

STSS

- Space-based infrared sensor payload models
- GEO, HEO, and LEO satellite orbits

Ground Elements [Producers]

TES:

JTAGS

MCS

TACDAR

MDSEC

MCS ITW/AA

- Models current Theater Event System (TES) elements
- Models MCS for BMDS applications
- MDSEC ground station for STSS applications

Tactical Messages

IBS-I

IBS-S

TDL-J

VMF

SSMS

- Certified to broadcast IBS-I and IBS-S (assigned blocks of inject IDs and track numbers)
- Two-way TDL-J over serial link
- VMF/SSMS messaging to support BMDS events

BACKGROUND / ISSUES

- **MDA sources indicate funding shortfall will limit funding for MDST support**
  - Continued operator support for RDTE efforts
  - Limited future support for non-RDTE efforts
- **Current MDA funding for MDST support is approx $2.2M**
  - $1.1M for support to Combatant Command exercises
  - $1.1M for direct support to other MDA events
- **MDST currently supports over 120 events per year**
- **MDST is certified for IBS broadcast**

DISCUSSION

- **Users need to identify requirements and impact if MDST for warfighter training support loses funding**
  - Contact Missile Warning Functional Managers Office
  - Mr. Derek Andersen
    DSN 272-8809
    andersed@stratcom.mil

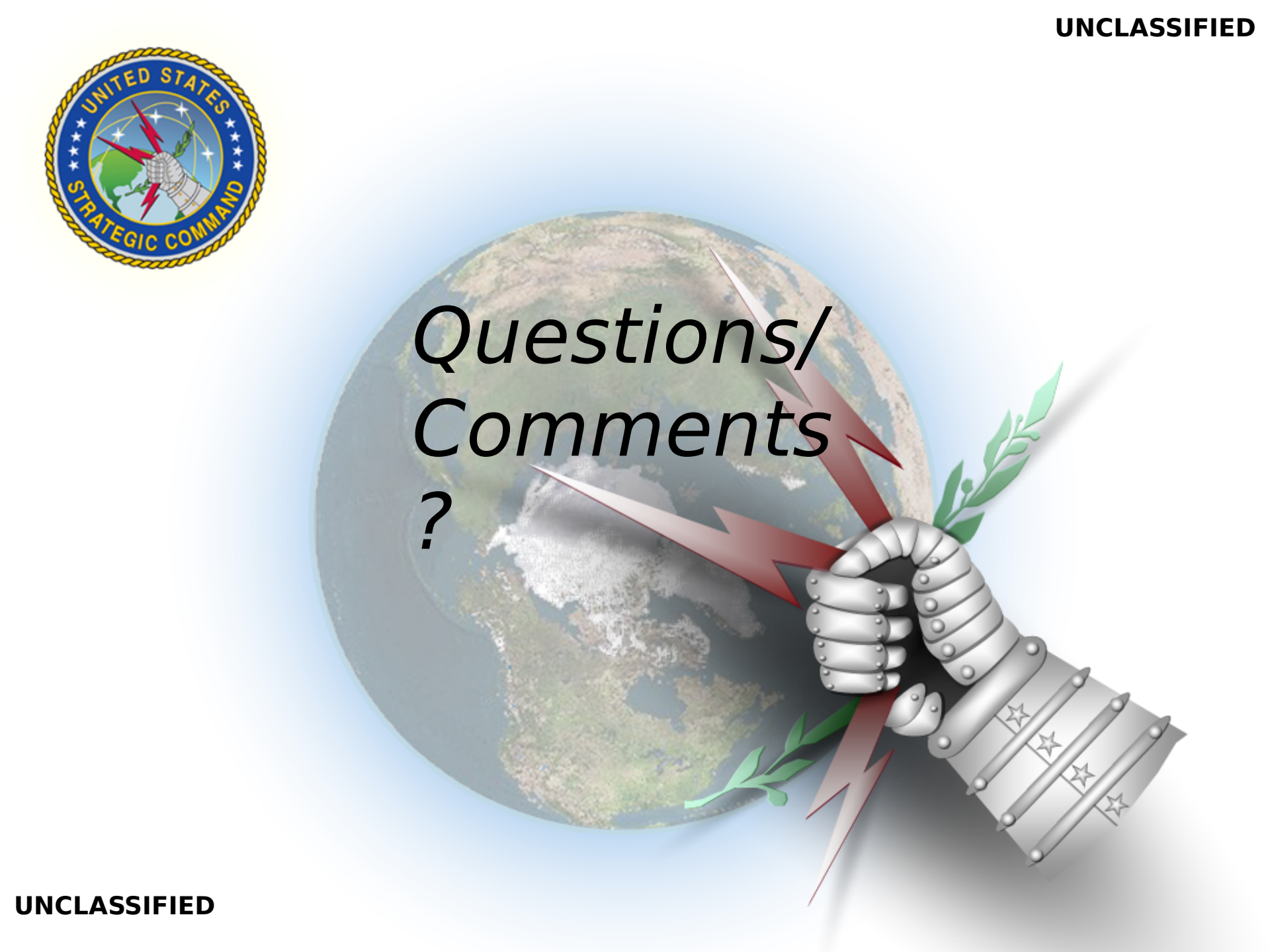
- **What's the solution?**
  - Technical alternatives?
  - Funding alternatives?

USSTRATCOM/J7 ALTERNATIVE

- **STRAT/J7 needed a way to stimulate the GCCS COP with missile data for numerous internal training events**

- **Scenario injector developed for USSTRATCOM/J7**
  - IP to IP / IP to GCCS server
  - Not currently certified for broadcast over IBS

- **Tested during numerous training events and used during GT 09 to populate GCCS COP w/ missile events**


Questions/
Comments
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